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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,517	03/08/2004	Frank Lin	14283 B	1923
23595	7590	08/25/2005	EXAMINER	
NIKOLAI & MERSEREAU, P.A. 900 SECOND AVENUE SOUTH SUITE 820 MINNEAPOLIS, MN 55402			BUI, HUNG S	
			ART UNIT	PAPER NUMBER
			2841	

DATE MAILED: 08/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.	Applicant(s)	
	10/796,517	LIN, FRANK	
	Examiner	Art Unit	
	Hung S. Bui	2841	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Yeh et al. [US 6,004,144].

Regarding claim 1, Yeh et al. disclose an electronic card (figure 1), comprising two shells (10, 11) juxtaposed to each other, and a frame (12) mounted between the two shells, wherein the frame has two sides each formed with a locking groove, and each of the two shells has two sides each formed with a locking hook detachably locked in the respective locking groove of the frame (figure 5).

Regarding claim 2, Yeh et al. disclose a terminal seat (123) mounted on a first end of the frame, wherein each of the two shells has a first end formed with a bent edge rested on the terminal seat (figures 1 and 5).

Regarding claim 3, Yeh et al. further disclose the terminal seat having two sides, each formed with an oblique insertion channel (figure 5), and the bent edge of each of the two shells is inserted into the respective insertion channel of the terminal seat (figure 1).

Regarding claim 4, Yeh et al. further disclose the frame having a first end with two sides, each formed with a positioning recess, and each of the two shells has a first

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end having two sides each formed with a positioning hook detachably locked in the respective positioning recess of the frame (figures 1 and 5).

Regarding claim 5, Yeh et al. disclose the positioning hook of each of the two shells is substantially L-shaped (abstract and figure 1).

Regarding claim 6, each of the two sides of the first end of each of the two shells being formed with an inclined edge located adjacent to the positioning hook, and each of the two sides of the first end of the frame is formed with two press faces each urged on the respective inclined edge of each of the two shells (figures 1 and 5).

Regarding claim 7, Yeh et al. further disclose a circuit board (13) mounted between the two shells and rested on the frame, and a terminal seat mounted on a first end of the frame and secured on a first end of the circuit board (figure 1).

Regarding claim 8, Yeh et al. disclose the first end of the frame being formed with an insertion recess (figure 1), and the terminal seat is inserted into the insertion recess of the frame.

Regarding claim 9, Yeh et al. disclose the locking hook of each of the two shells being formed of a substantially L-shaped (figure 1).

Regarding claim 10, Yeh et al. disclose the locking groove of each of the two sides of the frame is formed with two spaced elongated catch ribs for retaining the respective locking hook of each of the two shells (figure 5).

Regarding claim 11, Yeh et al. disclose each of the two shells having a symmetric structure (figure 1).

Regarding claim 12. Yeh et al. further disclose an extension mounted on a second end of the frame and rested on a second end of the circuit board (figures 1 and 5).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yeh et al. in view of Ming-Hui et al. [US 6,849,801].

Regarding claim 13, Yeh et al. disclose the instant claimed invention except for the second end of the frame including a first casing mounted thereon the frame and a removable second casing mounted on the first casing, so that the circuit board is received in the extension between the first casing and the second casing.

Ming-Hui et al. disclose an electronic card (figures 1-4), having a frame (20, 21) including a first end and a second end holding a printed circuit board (4), wherein the second end of the frame including a first casing (51) mounted thereon the frame and a removable second casing (50) mounted on the first casing, so that the circuit board is received in the extension between the first casing and the second casing.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use an additional housing design of Ming-Hui et al. for the electronic card of Yeh et al., for the purpose of providing ^{additional} ~~access~~ data.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Ramey et al. [US 6,091,605] disclose a memory card connector and cover apparatus and method;
- Tan et al. [US 5,490,043] disclose a grounding clip structure of I/O card;
- Chen [US 6,639,805] discloses a casing for a PC cartridge; and
- Wakita et al. [US 6,577,506] disclose a card type electronic device; and
- Hirai [US 5,493,477] discloses an IC card device.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung S. Bui whose telephone number is (571) 272-2102. The examiner can normally be reached on Monday-Friday 8:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

8/17/05

Hung Bui

Art Unit 2841

I.B. Patel
ISHWAR (I.B.) PATEL
Examiner
AU: 2841.